



**Code 300  
Safety and Mission Assurance  
(S&MA)**

**Service Pool Budget  
Development/Review/Operations**

**OSSMA Education Series - September 30, 2003**

***Dennis Brennan***

# **Types of Service Pools**

- **Non-Consumption Pools support a wide variety of Center activities, in which all Center projects and programs recognize a benefit (either directly or indirectly)**
  - **Examples include G&A, Facilities, IT, and Science and Engineering**
  - **Allocated on the basis of on-site workforce**
- **Consumption pools are the traditional carrier account type service pools in which the customer (i.e. project) controls the level of service.**
  - **Three exist at Goddard. Safety & Mission Assurance, Fabrication, and Test Services**
  - **Allocated on the basis of direct consumption (i.e. labor hours)**

# **What Is the S&MA Service Pool?**

- **An accumulation of similar (S&MA) cost elements that are distributed to projects**
- **Part of Goddard's institutional budget**
- **Funds Code 300's mission support contractor, G&A, and IT requirements**
- **Except IV&V (Code 307), or Resources Analysis Group (Code 305) G&A**
- **A Center consumption (demand) pool**

# **What Is the S&MA Service Pool?**

**(Continued)**

- **Main component or cost element is the SRS, Inc Mission Assurance Support Contract**
- **Contract provides quality, safety, reliability, IAT, and CRM support to Goddard projects**
- **Secondary components are the Directorate's G&A and IT funding. Beginning in FY04, Code 301 travel will be part of pool**

# **What is G&A In the S&MA Pool?**

- **General and Administrative Center institutional costs that cannot be traced to specific projects but benefit all Center activities**
- **Office supplies, conference/registration fees, telephone, transportation, graphics, lease administrative equipment, rehabs & mods**

# **What is “IT” In the S&MA Pool?**

- **Information technology is normally funded under the Goddard IT pool**
- **However, Code 300’s IT requirements are totally funded under the S&MA service pool (Center decision)**
- **Hardware & software purchases, IT security, LAN support & programming analysis, ODIN, network printer maintenance**

# What Does the S&MA Service Pool Budget Look Like?

FY04-FY10 G&A and Service Pool Budget

Consumption Service Pool: S&MA

Requirements by Function

NOA (\$K)

Function	FY 03 EST. Obligations	FY04 Req.	FY05 Req.	FY06 Req.	FY07 Req.	FY08 Req.	FY09 Req.	FY10 Req.
S&MA Mission Assurance Contract (SRS)	10,382.0	10,668.3	10,988.3	11,318.0	11,657.5	12,007.3	12,367.5	12,738.5
Code 300 G&A	98.8	147.8	198.2	204.1	210.3	216.6	223.1	229.8
Code 300 IT	242.0	427.9	440.7	454.0	467.6	481.6	496.1	510.9
Code 301 - Systems Review Office Direct Travel	-	200.0	206.0	212.2	218.5	225.1	231.9	238.8
SGT/ CSC Resources Support	132.0	136.0	140.1	144.3	148.6	153.2	157.6	162.3
NCR Upgrade	155.0	-	-	-	-	-	-	-
NCR Maintenance		15.0	15.5	15.9	16.4	16.9	17.4	17.9
Total	11,009.8	11,595.0	11,988.8	12,348.5	12,718.9	13,100.6	13,493.5	13,898.3

\* In FY03, \$173K of Code 300's IT Budget came from Center MPS. FY04's requirement was based on the total FY03 budget of \$415.4K inflated by 3%. (In FY04 the entire IT Budget will be funded through the pool.)

# What Does the S&MA Service Pool Budget Look Like? (Continued)

FY04-FY10 G&A and Service Pool Budget  
Consumption Service Pool: S&MA\_\_\_\_\_

Requirements by WBS

NOA (\$K)

WBS	TITLE	FY 03 EST Obligations	FY04 Req.	FY05 Req.	FY06 Req.	FY07 Req.	FY08 Req.	FY09 Req.	FY10 Req.
51-45-7951-01	Environmental Mgt. Sys Support	76.6	-	-	-	-	-	-	-
51-188-06-30	ISS	0.4	-	-	-	-	-	-	-
51-227-62-41	EOS LAM (GLAS)	136.8	-	-	-	-	-	-	-
51-227-63		2.0	-	-	-	-	-	-	-
51-227-72-01	Source	43.6	-	-	-	-	-	-	-
51-228-11-13	Aura	485.9	210.0	-	-	-	-	-	-
51-258-80-04		0.7	-	-	-	-	-	-	-
51-259-10-10	ESSP Project Management	231.2	136.5	130.0	132.0	157.0	205.0	23.0	-
51-259-40-10	ESSP/Calipso	2.2	73.5	66.0	-	-	-	-	-
51-259-50-10	ESSP/Cloudsat	-	31.5	77.0	-	-	-	-	-
51-259-60-10	ESSP/OCO	-	21.0	11.0	11.2	11.5	11.7	12.0	12.4
51-259-70-10	ESSP/Aquarius	-	52.5	22.0	22.4	23.0	23.4	23.9	24.9
51-264-51-01	Hitchhiker/Gas	406.8	115.5	341.2	404.0	355.9	363.4	299.3	-
51-288-20-01	Glory	-	10.5	55.0	56.1	57.4	58.6	59.9	62.2
51-288-21	Blue Horizon	-	-	-	-	-	-	-	-
51-297-30	SWG	-	-	27.5	28.1	28.7	29.3	29.9	31.1
51-297-50	LLIS	-	236.3	247.6	252.5	258.3	263.8	269.4	279.9
51-297-60-70	NEPAG	30.6	-	-	-	-	-	-	-
51-320-10-20	TDRS H,I,J	230.3	-	-	-	-	-	-	-
51-323-xx-xx	Code Q Safety & Mission Assurance	1,603.3	1,326.0	1,485.9	1,515.1	1,549.9	1,582.7	1,616.2	1,679.7
51-329-30	SOMO/Network Opns	-	52.5	55.0	56.1	57.4	58.6	59.9	62.2
51-329-87	Wallops Balloons	-	21.0	11.0	-	-	-	12.0	12.4
51-331-10-10	TDRS Continuation	-	136.5	418.3	482.6	891.0	1,024.8	1,045.6	-
51-353-87-01	ULD Balloon	38.7	-	-	11.2	11.5	11.7	-	-
51-359		0.2	-	-	-	-	-	-	-
51-409-79-01	ISS/RPO	1.5	10.5	-	-	-	-	-	-
51-428-66-12		5.8	-	-	-	-	-	-	-
Sub Total		3,296.6	2,433.8	2,947.5	2,971.3	3,401.6	3,633.0	3,451.1	2,164.8



# What Does the S&MA Service Pool Budget Look Like? (Continued)

FY04-FY10 G&A and Service Pool Budget  
Consumption Service Pool: S&MA\_\_\_\_\_

Requirements by WBS

NOA (\$K)

WBS	TITLE	FY 03 EST Obligations	FY04 Req.	FY05 Req.	FY06 Req.	FY07 Req.	FY08 Req.	FY09 Req.	FY10 Req.
51-430-04-00		5.2	-	-	-	-		-	-
51-432-01-82	VEFI	7.9	-	-	-	-		-	-
51-458-10-10	HST	-	325.5	1,121.7	919.0	57.4	58.6	59.9	-
51-458-20-01	HST Operations	-	126.0	-	-	-		-	-
51-458-40-01	HST Flight Systems	-	703.5	-	-	-		-	-
51-458-50-06	HST Fine Guidance Sensor	-	31.5	-	-	-		-	-
51-458-70-20	HST	1,316.6	-	-	-	-		-	-
51-575-83-01	Strategy 2 & 3 Software Assurance Initiative	56.0	21.0	-	-	-		-	-
51-430-04-00	Solar -B	30.5	-	-	-	-		-	-
51-615-43	POES N & N'	-	388.5	126.1	81.6	60.4	143.7	-	-
51-616-41	GOES N-Q	-	724.5	732.4	605.0	647.0	436.9	-	-
51-616-52	GOES R	-	178.5	538.3	603.6	750.3	987.9	1,091.5	1,132.4
51-629-50-12	ST-5	343.9	409.5	33.0	-	-		-	-
51-667-13-01	EOS Ground System	141.5	126.0	88.1	-	-		-	-
51-667-13-02	EDOS S/W Assurance	13.9	-	-	-	-		-	-
51-667-66-12	EOSDIS/ESMO	130.0	63.0	55.0	56.1	57.4	58.6	59.9	62.2
51-675-71-01	ES/GN Crosscutting/MILA	-	63.0	66.0	67.3	-	70.3	71.8	74.7
51-675-74-01	GN Space MILA	-	10.5	-	-	68.9		-	-
51-689-17-01	SMEX Future	-	168.0	-	-	-		-	-
51-689-17-02	Explorer Project Management	46.6	10.5	-	-	-		-	-
51-689-17-04	Explorers	-	21.0	-	-	-		-	-
51-689-17-61	MIDEX Future	-	42.0	-	-	-		-	-
51-740-10-01	Swift	-	420.0	-	-	-		-	-
51-740-10-60	Swift	999.1	-	-	-	-		-	-
51-756-20-10	THEMIS	6.4	84.0	44.0	44.9	-		-	-
51-766	WISE	-	-	44.0	44.9	-		-	-
51-773-10-00	ESD Implementation Code 239	8.1	-	-	-	-		-	-
		3,105.7	3,916.5	2,848.6	2,422.4	1,641.4	1,756.0	1,283.1	1,269.3
Sub Total		6,402.3	6,350.3	5,796.1	5,393.7	5,043.0	5,389.0	4,734.2	3,434.1

# What Does the S&MA Service Pool Budget Look Like? (Continued)

FY04-FY10 G&A and Service Pool Budget  
Consumption Service Pool: S&MA\_\_\_\_\_

Requirements by WBS

NOA (\$K)

WBS	TITLE	FY 03 EST Obligations	FY04 Req.	FY05 Req.	FY06 Req.	FY07 Req.	FY08 Req.	FY09 Req.	FY10 Req.
51-782-06-01	JWST	0	1,018.5	1022.6	1143.5	1112.1	1076.8	1039.6	547.4
51-782-06-20	JWST	394.5	-	-	-	-	-	-	-
51-782-06-73	ISIM/NIR Spec/JWST	-	42.0	121.1	123.5	126.3	-	-	-
51-784-10-30	GEC	1.7	84.0	11.0	56.1	11.5	-	-	-
51-784-10-70	SOLAR-B	-	10.5	33.0	33.7	-	-	-	-
51-784-10-71	STP Program Mgt	42.8	105.0	-	-	-	-	-	-
51-784-13-10	MMS	2.1	73.5	220.1	303.0	241.1	246.2	12.0	-
51-784-40-20	Geospace	-	-	110.1	112.2	114.8	117.2	119.7	-
51-784-40-70	LWS Program Mgt	24.3	105.0	-	-	-	-	-	-
51-784-60-01	LWS/SET	64.7	210.0	11.0	11.2	11.5	11.7	12.0	-
51-785-20-16	Glast	502.9	-	734.4	559.5	-	-	-	-
51-785-20-19 & -42	Glast/ACD	109.5	-	-	-	-	-	-	-
51-785-30-10	Lisa	9.3	63.0	-	-	-	-	-	-
51-785-40-71	Constellation X	8.5	31.5	30.0	-	-	-	-	-
51-794-10	SN Crosscutting/Operations	-	168.0	154.1	157.1	160.7	164.1	167.6	174.2
51-803-50-30	NPP	406.1	504.0	516.3	446.5	159.2	-	-	-
51-804-10-01	LDCM	23.1	73.5	169.1	180.6	183.7	-	-	-
51-806-10-05 & 10	GPM Program Mgt	160.3	84.0	729.4	990.6	990.3	1,023.9	977.7	-
51-806-40-01 & 03	GPM Core Spacecraft	247.8	220.5	-	-	-	-	-	-
51-82-20-20-01		4.5	-	-	-	-	-	-	-
51-848-10-16	GLAST	-	777.0	30.0	-	-	-	-	-
51-848-10-43	GLAST/ACD/661	-	168.0	-	-	-	-	-	-
51-860-10-17	IRAC	27.1	-	-	-	-	-	-	-
51-881-12-20 & 66		65.5	-	-	-	-	-	-	-
51-882-20-20	GALEX	65.8	-	-	-	-	-	-	-
51-882-30-20	TWINS	5.2	21.0	44.0	-	-	-	-	-
51-882-50-01 & 30	CINDI	5.3	31.5	-	-	-	-	-	-
		2,171.0	3,790.5	3,936.2	4,117.5	3,111.2	2,639.9	2,328.6	721.6
Sub Total		8,573.3	10,140.8	9,732.3	9,511.2	8,154.2	8,028.9	7,062.8	4,155.7

# What Does the S&MA Service Pool Budget Look Like? (Continued)

FY04-FY10 G&A and Service Pool Budget  
Consumption Service Pool: S&MA \_\_\_\_\_  
Requirements by WBS  
NOA (\$K)

WBS	TITLE	FY 03 ES' Obligations	FY04 Req.	FY05 Req.	FY06 Req.	FY07 Req.	FY08 Req.	FY09 Req.	FY10 Req.
51-882-52-30		6.9	-	-	-	-	-	-	-
51-882-60-14	ASTRO-E2	334.9	136.5	22.0	-	-	-	-	-
51-882-70-10	SPIDR	9.7	-	-	-	-	-	-	-
51-882-80-20	AIM	17.2	63.0	44.0	44.9	-	-	-	-
51-883-08-01	STEREO	401.9	388.5	312.7	168.3	-	-	-	-
51-884-01-11	LWS/SDO	223.0	561.8	731.9	704.8	619.9	-	-	-
51-890-10-90	MLA	159.6	10.5	-	-	-	-	-	-
51-896-50-10	MARS Laser Demo	-	115.5	121.1	121.2	126.3	129.0	131.7	136.9
51-993	Future Opportunities	-	-	-	-	-	-	-	-
51R-344-96-4494-30		3.4	-	-	-	-	-	-	-
51R-615-33-T035-01	POES K,L,M	122.4	-	-	-	-	-	-	-
51R-615-43-U037-01	POES K, L, M & N-N	379.2	-	-	-	-	-	-	-
51R-616-41-U026-01	GOES N,Q	728.9	-	-	-	-	-	-	-
51R-616-51-U026-01		10.3	-	-	-	-	-	-	-
51R-616-52-U092-01	GOES R	39.1	-	-	-	-	-	-	-
51-010	CRM Training	-	178.4	330.2	336.7	344.4	351.7	359.1	373.3
51-993	Future Opportunities			694.6	1,461.4	3,474.1	4,591.0	5,939.9	9,232.4
									-
									-
									-
									-
									-
									-
									-
Sub Total		2,436.5	1,454.2	2,256.5	2,837.3	4,564.7	5,071.7	6,430.7	9,742.6
Total		11,009.8	11,595.0	11,988.8	12,348.5	12,718.9	13,100.6	13,493.5	13,898.3

# What Does the S&MA Service Pool Budget Look Like? (Continued)

## FY04-FY10 G&A and Service Pool Budget Consumption Service Pool: S&MA

**Rate Development** - provide details below:

	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Total S&MA Mission Assurance Contract	10,668.3	10,988.3	11,318.0	11,657.5	12,007.3	12,367.5	12,738.5
Other S&MA Operating Costs	926.7	1,000.5	1,030.5	1,061.4	1,093.3	1,126.0	1,159.8
<i>Total S&amp;MA Service Pool</i>	11,595.0	11,988.8	12,348.5	12,718.9	13,100.6	13,493.5	13,898.3
Total Contractor Labor Hours (In Thousands)	128.7	128.7	128.7	128.7	128.7	128.7	128.7
Total Civil Service Labor Hours (In Thousands)	71.4	71.4	71.4	71.4	71.4	71.4	71.4
<i>Total Chargeable Hours</i>	200.1	200.1	200.1	200.1	200.1	200.1	200.1
Hourly Rate	\$57.95	\$59.91	\$61.71	\$63.56	\$65.47	\$67.43	\$69.46

**Rate Development Assumptions** - provide details below:

- ♦ All of Code 300's G&A (except for Resources Analysis Group) is funded through the S&MA Pool.
- ♦ Beginning in FY04, all of Code 300's IT requirements are funded through the Pool, as well as Code 301 Systems Review Direct Travel.
- ♦ Hourly rate is calculated by dividing Total S&MA Service Pool Costs by Total Chargeable Hours.
- ♦ Hourly rates will be rounded to the nearest whole dollar.
- ♦ Total chargeable hours (200,100) remain constant throughout FY10.

# **How Is the S&MA Pool Developed?**

- **CFO's Office issues Center institutional call letter in early July with due dates and formats**
- **Code 300 call letters with internal due dates go out to SAMs and Division/Office Heads**
- **Directorate reviews are scheduled**
- **SAMs prepare estimated SRS contract & Code 300 civil service FTE requirements for their projects**
- **Review SOWs and responses for additional information**

# **Code 300 POP 04-1 Institutional Budget Schedule**

- July 25     Code 300 Division/Office chiefs submit S&MA Pool related G&A and IT requirements to Resources Office – excludes Code 305 G&A (see Aug 8)**
- July 25     Code 301 submits systems review travel requirements for S&MA service pool**
- July 31     Code 303 SAMS submit SRS/Honeywell & civil service FTE requirements and Other Direct Costs for S&MA Consumption Pool to Resources Office**
- July 31     Code 302, 303, 304 and 306 Division Chiefs submit indirect SRS/Honeywell task FTE requirements for FY04-FY10 to Resources Office**
- Aug 8       Code 305 submit G&A requirements to Resources Office**
- Aug 15     Directorate review Code 301 G&A and IT requirements**
- Aug 19     Directorate review Code 302, 303, 304, 305 and 306 G&A and IT requirements**
- Aug 22     Due date for all directorates to have non-consumption (Code 305 G&A) service pool and G&A budget data to Code 153**

# **Code 300 POP 04-1 Institutional Budget Schedule (Continued)**

- Sept 18    Final Code 300 review/approval of S&MA pool package by Director of**
- Sept 22    All consumption service pool budget (S&MA pool) charts due to Code 153**
- Oct 9-10   G&A and Service Pool Administrators meet to integrate all budget requirements and review tradeoff options**
- Oct 27    CFO Office presents budget requirements to Executive Council**
- Oct 31    Final Center approval of G&A and Service Pool budget and rates: all pools will provide formal feedback of final approved budgets**

# Code 300 G&A and IT Reviews

		Inputs			
Division	Review	Due to	Due to	Directorate	
		Code 300	Code 153	Review	Time
Code 301					
	S&MA Pool related G&A & IT	7/25	9/22	15-Aug	11:00-11:30
	S&MA Pool related travel	7/25	9/22		
Code 302					
	S&MA Pool related G&A & IT	7/25	9/22	19-Aug	10:00-10:30
	SRS/Honeywell Indirect task FTEs	7/31	Internal		
Code 303					
	S&MA Pool related G&A & IT	7/25	9/22	19-Aug	10:45-11:15
	SAMs submit direct SRS/Honeywell & civil service & ODC requirements	7/31	9/22		
	SRS/Honeywell Indirect task FTEs	7/31	Internal		
Code 304					
	S&MA Pool related G&A & IT	7/25	9/22	19-Aug	1:00-1:30
	SRS/Honeywell Indirect task FTEs	7/31	Internal		
Code 305					
	S&MA Pool related IT (only)	7/25	9/22	19-Aug	1:45-2:15
	G&A review	8/8	8/22		
Code 306					
	S&MA Pool related G&A & IT	7/25	9/22	19-Aug	11:30-12:00
	SRS/Honeywell Indirect task FTEs	7/31	Internal		



# Code 303 SAM FTE Chart

FILE: PRE-POP 04-1.xls

EOSDIS

UPN 667-13-01

SRS Contractor FTE'S (in tenths)	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY10
Mission Assurance Engineering Services (303)	1.0	0.5						
Systems Safety Services (302)								
Systems Reliability Services (302)								
Continuous Risk Management Services (306)								
Information and Assurance Technology Services (304)								
<b>Sub-Total SRS FTE'S</b>	<b>1.0</b>	<b>0.5</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>SRS Travel &amp; Other Direct Cost (in \$Ks)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Code 300 Civil Service (FTEs)</b>	<b>0.3</b>	<b>0.3</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>(Code 310 JON Required)</b>								
<b>Total Contractor &amp; Civil Service FTE'S</b>	<b>1.3</b>	<b>0.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Resource Analyst  
B. Cullinan

System Assurance Manager  
S. Sekira

# **How Is the S&MA Pool Developed?**

**(Continued)**

- **Division Chiefs/Office Heads provide “indirect” SRS task FTE requirements to Resources Office – needed for total contract**
- **Division Chiefs/Office Heads develop G&A and IT requirements**
- **Code 301 estimates systems review travel**
- **Resource Office prepares packages for Directorate reviews**

# SRS Estimated Indirect FTE Requirements

	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Code 302 System Safety Services (Karen) No indirect tasks currently							
Code 302 Reliability Services (Karen) GSFC PRA Implementation SOAR Support Future Indirect Future Indirect							
Code 303 Mission Assurance Engineering (Stan) Mission Ops Reporting Software Quality Assurance Approach Future Indirect Future Indirect							
Code 304 Information & Assurance Technology (AI) SW & Database Enhancement & Maint Lan & Server Maintenance Property Custodian SW Metrics for Product Assurance Safe Alert Database Future Indirect							
Code 306 SMO Independent Assessments (Warren/ CRM Training Content Rich) CRM Services to Projects Project Tracking /Trending System Review Process Effectiveness Future Indirect							

# FY04-FY10 G&A and IT Estimated Requirements Code \_\_\_\_ \$K

## Summary by Category

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	Notes
	Est. Req	Est. Req	Est. Req	Est. Req	Est. Req	Est. Req	Est. Req	
<b>G&amp;A Categories</b>								
Rehab & Modifications <\$25K								
Transportation/Moves								
Lease Administrative Equip								
Office Supplies								
Office Equipment								
Telephone Support								
Conference/Registration Fees								
Printing & Reproduction								
Graphics								
Furniture								
Subtotal G&A								
<b>IT Categories</b>								
IT Hardware Purchases								
IT Software Lease								
IT Software Purchases								
IT Supplies								
IT Security SRS								Code 304 only
IT LAN Support SRS								Code 304 only
IT Programming Analysis SRS								Code 304 only
IT Studies, Analysis & Eval								
ODIN Support								Code 304 only
Network Printer Maintenance								Code 304 only
NCR System Maintenance								
Subtotal IT								
TOTAL G&A and IT								

# FY04 G&A Estimated Requirements

## Code \_\_\_\_\_

Priority	Category	Item Description	Est Cost (\$K)
		Example	Example
	Rehab & Mods < \$25k		
1		Paint room x, blg 6	15
3		Remove partition room y	5
2	Lease Adm. Equipment		
		Pagers	10
		Cell phones	10
			20
		Total G&A Requirements	

**THIS SHEET REQUIRED FOR FY04 ONLY**

# FY04 IT Requirements Code \_\_\_\_\_

Priority	Category	Item Description	Est Cost (\$K)
		Example	
2	IT Supplies	Brief Description	10
3		Brief Description	4
3	IT Software	Program xyz	1

Total IT Requirements

**THIS SHEET REQUIRED FOR FY04 ONLY**

# **How Is the S&MA Pool Developed?**

**(Continued)**

- **Code 300 Management reviews all requests and determines initial pool funding levels**
- **Resources office prepares final pool package**
- **Submit package to Code 153 via e-mail**
  - **Budget functional requirements by year**
  - **Requirements by WBS (customer)**
  - **Service pool rate development**

# **How Is the S&MA Pool Developed?**

**(Continued)**

- **Develop project assessments based on preliminary hourly rate (converted to \$K/FTE)**
- **An assessment is the estimated funding a project will need for their S&MA support needs.**  
**Assessments sent to projects**
- **SAMs worked with projects to develop FTE requirements early in the budget process**



# FY03 Project Assessment Chart

FY03 (\$96K/FTE)								
UPN	Project	SAM	C	CS	Total	ODCs	Total Costs	FY03 rate \$96K/FTE
010-01-03	Adv CRM Course Dev	Day	0.0	0.0	0.0		0.0	
039	IAT Support	Gallo			0.0		0.0	
226-11	EOS Aqua	Ellis			0.0		0.0	
227-61	EOS Icesat	Kolecki			0.0		0.0	
227-62	EOS icesatGLAS	Kolecki	1.5	1.0	2.5		240.0	
227-72-01	ESSP/Sorce	Ellis	0.3	0.6	0.9	10.0	86.4	
228-11	EOS Aura (Chem)	Ellis	3.5	1.8	5.3	20.0	508.8	
259-10-30	ESSP/Grace	Ellis			0.0		0.0	
259-10-40	ESSP3 (Calipso)	Ellis	0.4	0.7	1.1	10.0	105.6	
259-10-50	ESSP/Cloudsat	Ellis	0.3	1.0	1.3	10.0	124.8	
264-51	Hitchhiker/Gas	Counts	5.0	0.7	5.7	0.0	547.2	
297	NEPAG/CRM AE	Sampson/Day		0.5	0.5		48.0	
320-10	TDRS H,I,J	Huber	1.1	1.3	2.4	20.0	230.4	
323	OSMA/Code Q	Denoon	7.9	1.6	9.5		912.0	
329-30	SOMO/Network Opns	Marvray	0.5	0.1	0.6		57.6	
399	Astro-E2	Kolecki		2.5	2.5		240.0	
409-89	RSDO	Ackerson		0.1	0.1		9.6	
428-13-01	EOS DIS	Sekira	2.0	0.2	2.2		211.2	
428-13-02	EDOS	Marvray	0.3		0.3		28.8	
458	HST	Cissell	6.1	4.4	10.5	10.0	1,008.0	
575	SW Assur Initiative	Gallo	0.8		0.8		76.8	
615-45-11/12	Poes N & N'	Daney	2.0	2.4	4.4	10.0	422.4	
616-57	Goes R	Dafnis	0.1		0.1		9.6	
616-31	Goes I-M	Dafnis	0.2		0.2		19.2	
616-41	Goes N-Q	Dafnis	6.7	1.9	8.6	48.0	825.6	
629-50	ST-5	Counts	3.1	0.0	3.1	0.0	297.6	
689-17	SMEX Future	Claffy	0.6	0.6	1.2		115.2	
740	Swift	Archer-Davies	3.7	2.4	6.1	3.0	585.6	
741	Fame	Claffy	0.0	0.0	0.0	0.0	0.0	Mission cancelled
782-06	NGST	Sticka	4.8	2.6	7.4	10.0	710.4	
784-10-70	Solar-B	Kelly	0.0	0.1	0.1		9.6	
784-13-10	MMS	Kelly	0.1	0.0	0.1		9.6	
784-40	Living With a Star	Kleppin	0.0	0.0	0.0		0.0	Now Stereo/STP & SDO/LWS
784-60-00	LWS/SET	Kelly		0.1	0.1		9.6	

  

UPN	Project	SAM	C	CS	Total	ODCs	Costs	Note: FY02 rate \$104K/FTE and FY03 rate \$96K/FTE
785-20-10	Glast	Huber	5.2	0.9	6.1	26.0	585.6	
785-20-30	Glast/ACD/661	Huber	1.2	0.1	1.3	5.0	124.8	
803	NPOESS Prep	Kleppin	2.3	1.6	3.9	10.0	374.4	
804-10	LDCM (Landsat)	Marvray	0.3	0.3	0.6	2.0	57.6	
806	GPM	Touts	2.7	1.9	4.6		441.6	
860-10	SIRTF IRAC	Ackerson	0.4	0.1	0.5	8.0	48.0	Why 1.0 drop in FTE?
881	Chips	Claffy	0.2	0.4	0.6		57.6	Launches 12/02
882-20	Galex	Claffy			0.0		0.0	Launch end of FY02
882-30	Twins	Claffy		0.2	0.2		19.2	Limited 300 involvement
883-08	Stereo/STP/SEC	Sekira	1.0	1.0	2.0		192.0	Why 2.3 drop in SRS?
884-01	SDO Instruments	Calvo	4.9	1.2	6.1	25.0	585.8	Living With a Star
890-10-91	MLA	Counts	0.8		0.8		76.8	
784-10-30	GEC	Kelly	0.0	0.0	0.0	0.0	0.0	
Multiple TBD	Orbit Debri Asses	Garvin	1.0		1.0	0.0	96.0	
Multiple TBD	CRM Training	Day	1.0		1.0		96.0	
993	Future Opport		0.0	0.0	0.0	0.0	0.0	Rate: 96
Total Direct (Chargeable) FTE's			72.0	34.3	106.3	227.0	10205.0	

Check FY02 direct chargeable SRS and compare to 65.4 estimate and total estimated (including indirect). Go to C-Minder

Add Misc UPN's charged to in FY02 not originally planned for  
Also check ODC's actuals for FY02

SRS FY03 WISP was 91 FTEs

# FY04 Project Assessment

## Chart (Continued)

FY04 (\$99K/FTE)

UPN	Project	SAM	FY04			Total	
			C	CS	Total	ODCs	Costs
010-01-03	Adv CRM Course Dev	Day			0.0		0.0
039	IAT Support	Gallo	0.0		0.0		0.0
226-11	EOS Aqua	Ellis			0.0		0.0
227-61	EOS Icesat	Kolecki			0.0		0.0
227-62	EOS icesatGLAS	Kolecki			0.0		0.0
227-72-01	ESSP/Sorce	Ellis			0.0		0.0
228-11	EOS Aura (Chem)	Ellis	1.5	1.0	2.5	15.0	262.5
259-10-30	ESSP/Grace	Ellis			0.0		0.0
259-10-40	ESSP3 (Calipso)	Ellis	0.4	0.7	1.1		108.9
259-10-50	ESSP/Cloudsat	Ellis	0.3	0.6	0.9	10.0	99.1
264-51	Hitchhiker/Gas	Counts	5.0	1.0	6.0		594.0
297	NEPAG/CRM AE	Sampson/Day			0.6		59.4
320-10-90	TDRS Follow-on Plan	Huber			0.5		49.5
323	OSMA/Code Q	Denoon	7.9	1.6	9.5		940.5
329-30	SOMO/Network Opns	Marvray	1.0	0.1	1.1		108.9
399	Astro-E2	Kolecki			0.0		0.0
409-89	RSDO	Ackerson			0.0		0.0
428-13-01	EOS DIS	Sekira	1.0	0.2	1.2		118.8
428-13-02	EDOS	Marvray			0.0		0.0
458	HST	Cissell	6.1	5.4	11.5	10.0	1148.5
575	SW Assur Initiative	Gallo			0.0		0.0
615-45-11/12	Poes N & N'	Daney	1.3	1.0	2.3	10.0	237.7
616-57	Goes R	Dafnis	0.1		0.1		9.9
616-31	Goes I-M	Dafnis	0.1		0.1		9.9
616-41	Goes N-Q	Dafnis	6.6	1.9	8.5	50.0	891.5
629-50	ST-5	Counts	2.4		2.4		237.6
689-17	SMEX Future	Claffy	0.6	0.6	1.2		118.8
740	Swift	Archer-Davies			0.0		0.0
741	Fame	Claffy			0.0		0.0
782-06	NGST	Sticka	5.3	2.6	7.9	10.0	792.1
784-10-70	Solar-B	Kelly			0.1		9.9
784-13-10	MMS	Kelly			0.1		9.9
784-40	Living With a Star	Kleppin			0.0		0.0
784-60-00	LWS/SET	Kelly			0.1		9.9

UPN	Project	SAM	FY04			Total	
			C	CS	Total	ODCs	Costs
785-20-10	Glast	Huber	5.2	0.9	6.1	26.0	629.9
785-20-30	Glast/ACD/661	Huber	1.5	0.1	1.6		158.4
803	NPOESS Prep	Kleppin	2.3	1.6	3.9	10.0	396.1
804-10	LDCM (Landsat)	Marvray	0.3	0.3	0.6		59.4
806	GPM	Toutsi	5.1	2.5	7.6	2.0	754.4
860-10	SIRTF IRAC	Ackerson			0.0		0.0
881	Chips	Claffy			0.0		0.0
882-20	Galex	Claffy			0.0		0.0
882-30	Twins	Claffy			0.2		19.8
883-08	Stereo/STP/SEC	Sekira			0.0		0.0
884-01	SDO Instruments	Calvo	6.0	1.2	7.2	25.0	737.8
890-10-91	MLA	Counts			0.0		0.0
784-10-30	GEC	Kelly			0.0		0.0
Multiple TBD	Orbit Debris Asses	Garvin			0.0		0.0
Multiple TBD	CRM Training	Day			0.0		0.0
993	Future Opport		13.0	8.1	21.1		1938.9
Total Direct (Chargeable) FTE's			73.0	33.0	106.0	168.0	10512.0

73.0 33.0 106.0 10512.0

FTE Rate: 10512/106

# How Is the S&MA Pool Developed?

(Continued)

- All Center pools reviewed at pool integration meeting
- *After final approval of S&MA pool and hourly rate, sometime in October, letter goes out to projects from CFO with hourly charge-back rate*
- Each Center pool has a team with an administrator, manager, CFO & customer representatives

# Pool Administrators and Managers

Pool	Pool Administrator	Pool Manager
General & Administrative (G&A)	Allison McNally - Code 100	Lisa Kelleher - Code 150
<b>Non-Consumption Pools:</b>		
Information Technology (IT)	Linda Rosenberg - Code 103	Paul Hunter - Code 103
<i>Institutional IT</i>		<i>Linda Rosenberg - Code 103</i>
<i>Communications</i>		<i>Diane Williams - Code 200</i>
Facilities	Diane Williams - Code 200	Phil Holloway - Code 220
Science & Engineering (S&E)	Rick Obenschain - Code 500 Jonathan Ormes - Code 600 Franco Einaudi - Code 900	N/A
<i>Technical Equipment/Recertification</i>		<i>Mitch Brown - Code 500</i>
<i>Tech Facility Restoration</i>		<i>Mitch Brown - Code 500</i>
S&E Labor		<i>Rick Obenschain - Code 500</i> <i>Jonathan Ormes - Code 600</i> <i>Franco Einaudi - Code 900</i>
<b>Consumption Pools:</b>		
Test Services	Rick Obenschain - Code 500	Stan Wojnar - Code 540
Fabrication	Rick Obenschain - Code 500	Garcia Blount - Code 540
Safety & Mission Assurance	Wentworth Denoon - Code 300	Dennis Brennan - Code 300

# How Is the S&M/A Pool Hourly Charge/Back Rate Developed?

- Total FY04 pool dollars divided by total direct chargeable hours
  - Total FY04 pool \$11,595,000/200,100 hours = \$58/hr
  - or \$11,595,000/110 FTEs = \$105/FTE

# Hourly Rate Development

FY04-FY10 G&A and Service Pool Budget  
Consumption Service Pool: S&MA

**Rate Development** - provide details below:

	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Total S&MA Mission Assurance Contract	10,668.3	10,988.3	11,318.0	11,657.5	12,007.3	12,367.5	12,738.5
Other S&MA Operating Costs	926.7	1,000.5	1,030.5	1,061.4	1,093.3	1,126.0	1,159.8
<i>Total S&amp;MA Service Pool</i>	11,595.0	11,988.8	12,348.5	12,718.9	13,100.6	13,493.5	13,898.3
Total Contractor Labor Hours (In Thousands)	128.7	128.7	128.7	128.7	128.7	128.7	128.7
Total Civil Service Labor Hours (In Thousands)	71.4	71.4	71.4	71.4	71.4	71.4	71.4
<i>Total Chargeable Hours</i>	200.1	200.1	200.1	200.1	200.1	200.1	200.1
Hourly Rate	\$57.95	\$59.91	\$61.71	\$63.56	\$65.47	\$67.43	\$69.46

**Rate Development Assumptions** - provide details below:

- ♦ All of Code 300's G&A (except for Resources Analysis Group) is funded through the S&MA Pool.
- ♦ Beginning in FY04, all of Code 300's IT requirements are funded through the Pool, as well as Code 301 Systems Review Direct Travel.
- ♦ Hourly rate is calculated by dividing Total S&MA Service Pool Costs by Total Chargeable Hours.
- ♦ Hourly rates will be rounded to the nearest whole dollar.
- ♦ Total chargeable hours (200,100) remain constant throughout FY10.

# **What Does the S&MA Service Pool Team Do?**

- **Provides representation and input from the customers (directorates) that use the pool, and CFO's understanding that will be valuable later during Center review process**

# **S&MA Service Pool Team For FY04-FY10 Budget**

- **Wentworth Denoon, Code 300 Pool Administrator**
- **Dennis Brennan, Code 300 Pool Manager**
- **Byron Wong, Code 300 Resource Analyst**
- **George Barth, Code 400 Customer**
- **Tom Venator, Code 400 Customer**
- **Will Conn, Code 500 Customer**
- **Nancy Newman-Pape, CFO Office Representative**



# Issues/Challenges

- **Center continues to face tough institutional funding issues**
- **Complicated by having to navigate our way through IFM**
- **Budget Formulation Module**

# **S&MA Service Pool Operations**

- **S&MA pool now funded up front with project funds – no more ‘float’**
- **Code 300 and projects negotiate at least annually and a Service Level Agreement (SLA) is created**
- **For new work, an e-mail is sent from the project to Code 300 with the estimated cost**

# **S&MA Service Pool Operations (Continued)**

- **A Cost Pool Funds Distribution Form is completed citing the Project Fund Center (i.e. 51-323), the Cost Pool Fund Center (i.e. 51-PAS) and the amount to be transferred**
- **Form sent to Regional Finance Office (RFO)**

# **S&MA Service Pool Operations (Continued)**

- **RFO transfers budget from the project to the S&MA cost pool**
- **Civil service labor hours, contractor labor hours, and other direct costs (ODC), are collected and uploaded into the Product Assurance System (PAS)**

# **S&MA Service Pool Operations**

- **PAS tracks the labor hours and cost by JON by service number/task and sends the labor hours and ODC by work breakdown structure (WBS) to SAP**
- **SAP calculates cost by WBS and assesses that cost back to the project by WBS (statistically)**